

Getting Started with the NOAA SBIR Program: Submitting a Research Subtopic

Vince Garcia

SBIR Program Manager

Danielle Conklin (Contractor)

SBIR Program Specialist

Small Business Innovation Research

The Federal SBIR Program is a highly competitive program that encourages domestic small business to engage with federal government in developing products/services that have potential for commercialization while meeting agency mission needs.





SBIR Mission:

To support scientific excellence and technological innovation through the investment of Federal research funds in critical American priorities to build a strong national economy... one small business at a time





SBIR Program Goals

- Stimulate technological innovation.
- Meet Federal research and development needs.
- Foster and encourage participation in innovation and entrepreneurship by socially and economically disadvantaged persons.
- Increase private-sector commercialization of innovations derived from Federal research and development funding.





Previous SBIR federal funding recipients:



















The SBIR Program

- SBIR was created by Roland Tibbetts at the National Science Foundation and signed as a Federal-wide program in 1982 by Ronald Reagan.
- SBIR programs have awarded over \$43 billion to researchintensive American small businesses.
- The 450,000 engineers and scientists involved are one of the largest STEM talent concentrations in the world.





The SBIR Program

- A set-aside program for small business to engage in Federal R&D with potential for commercialization.
- Starting in 2017 and beyond*, set-aside is 3.2% of the extramural research budget for all agencies with a budget greater than \$100M per year.

FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
2.5%	2.6%	2.7%	2.8%	2.9%	3.0%	3.2%





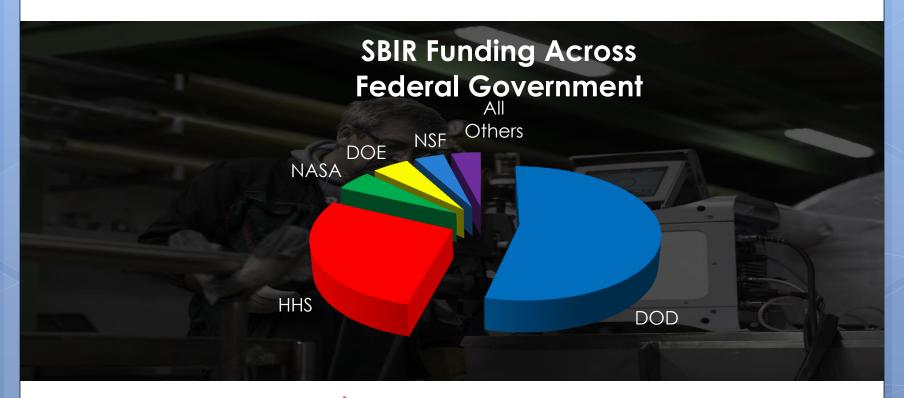
Participating Agencies

- Dept. of Agriculture (USDA)
- Dept. of Commerce (DoC)
- Dept. of Defense (DoD)
- Dept. of Education(ED)
- Dept. of Energy (DOE)
- Dept. of Health & Human Services (HHS)
 National Science Foundation
- Dept. of Homeland Security (DHS)

- Dept. of Transportation (DOT)
- Environmental Protection Agency (EPA)
- National Aeronautics and SpaceAdministration (NASA)
- National Science Foundation (NSF)











SBIR Agency Differences

- Number and timing of solicitations
- Topic areas (Broad v. Focused)
- Type of award (Contract v. Grant)
- Dollar amount of award (Phase I and II)
- Proposal preparation instructions
- Proposal review process





SBIR Program Eligibility

- Small Business Concern must be organized as For-profit
- American-owned and independently operated
- Work must be done in the U.S.
- Principal Investigator employed by small business
- Company size limited to 500 employees

















NOAA SBIR Program

Awards Firm-Fixed-Price Contracts*

Solicitation per fiscal year One

Released mid-October

Proposals due mid-January

Available FedBizOpps (fbo.gov)

Typical Phase I Awards 15 to 25 Typical Phase II Awards 10 to 15

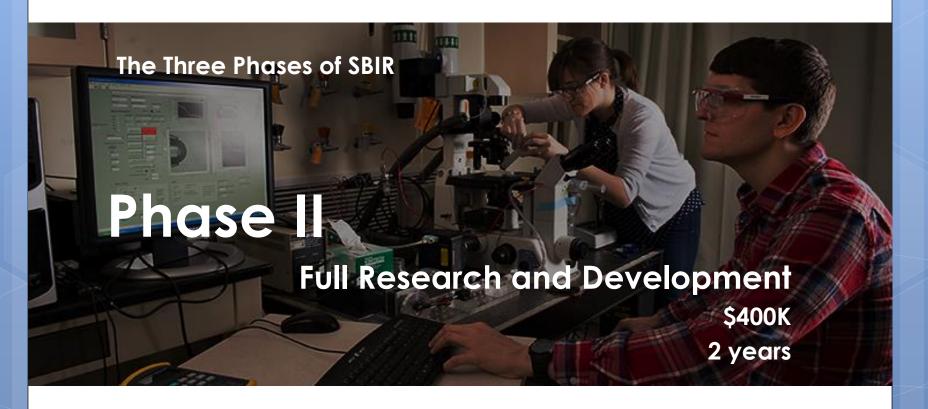
SBIR Funding ~\$6-7M each year

*in the process of transitioning to Grants or Cooperative Agreements in FY19









*Note: The company retains rights to the developed technology.







NOAA SBIR Topic Areas

NOAA Strategic Research Guidance Memorandum

- Integrated Earth System Processes & Predictions
- Environmental Observations
 - Observing Systems Optimization
 - Data Science Advancements
- Decision Science, Risk Assessment & Risk Communication
- Integrated Water Prediction
- Artic Research
- *SBIR Technology Transfer



NOAA SBIR Peer Review

Five Evaluation Criteria
Technical Approach
Fulfillment of Subtopic Requirements
Level of Innovation
Commercial Potential
Qualifications of Team

<u>Ratings</u>

Outstanding, Good, Acceptable, Marginal, Unacceptable



NOAA SBIR Schedule

Subtopic Development

June – Aug 2017 SBIR Solicitation Released

> Mid-Oct 2017

Proposals Due

Mid-Jan 2018 Proposal Evaluation

Jan – Mar 2018 NOAA Award Selection

Mar – May 2018 Phase I Awards

> June 2018



NOAA SBIR Schedule

Subtopic Development

June – Aug 2017 SBIR Solicitation Released

> Mid-Oct 2017

Proposals Due

Mid-Jan 2018 Proposal Evaluation

Jan – Mar 2018 NOAA Award Selection

Mar – May 2018 Phase I Awards

June 2018



Subtopic Development (Jun-Aug)

First things first. Eligibility for submitting a Subtopic

- Must be a NOAA Federal Employee
- Serve as the Technical Point of Contact (TPOC) for project. This
 includes serving as the lead coordinator of technical reviewers of
 proposals within your subtopic
- Commitment applies to Phase I and Phase II (if selected for follow-on funding to continue the R&D)



Subtopic Development (Jun-Aug)

What is an SBIR research subtopic?

- Subtopics are "problem statements" that you may have for your program or mission area
 - Examples include: "We need a more accurate way to count fish in the Mississippi delta."
- Cannot be specific or prescriptive
 - Using the example above, we won't tell the vendors <u>how</u> they will count fish such as prescribing them to use sonar or underwater cameras. Instead, we allow them to find innovative ways to do so.



Subtopic Development (Jun-Aug)

How do I submit one?

- The NOAA SBIR Subtopic form was distributed via the NOAA Research Council and also through your AA/DAA.
- It is available via the SBIR intranet page (use your NOAA Google credentials) here: http://techpartnerships.noaa.gov/SBIR.aspx
- All submissions are due by 5PM EDT, August 15th

The deadline has been extended to 5PM EDT, August 29th



What's Next?

All subtopics are compiled and the following subtopic selection methodology is used to rank them:

- SBIR Program Goals
 - Will the subtopic highly encourage small business participation, thus providing stimulus to the economy thru commercialization?
- 2. Commercialization Potential
 - Utilize market research (ex. sbir.gov, previous RFI, etc.)
- 3. Innovation
 - Is the subtopic challenging vendors to be innovative in their solution? Or is it merely answering a program or lab need?
- 4. Specific vs Broad
 - Is the project too specific, which potentially limits industry participation? Or is it broad enough to meet industry needs?



What's next?

- Subtopics with potential for high participation by small businesses and have the most commercial potential will be selected for inclusion in the FY18 SBIR Solicitation (scheduled to be published in October 2017).
- The number of subtopics selected depends on the FY18 budget. At this point, that number is still to be determined.



NOAA Technical Partnerships Committee

Bob Kuligowski (bob.kuligowski@noaa.gov) - NESDIS
Mark Chandler (mark.chandler@noaa.gov) - NMFS
Felipe Arzayus (felipe.arzayus@noaa.gov) - NMFS Alternate
Jawed Hameedi (jawed.hameedi@noaa.gov) - NOS
Peter Roohr (peter.roohr@noaa.gov) - NWS
Chris Hedge (christopher.hedge@noaa.gov) - NWS Alternate
Rich Lataitis (richard.lataitis@noaa.gov) - OAR
Shannon Louie (shannon.louie@noaa.gov) - OAR Alternate
Cindy Diehl (cindy.diehl@noaa.gov) - OCIO





NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION OCEANIC AND ATMOSPHERIC RESEARCH

Technology Partnerships Office

Promoting Partnership & Commercialization of NOAA Technology and Innovations

Vince Garcia

NOAA SBIR Program Manager vincent.garcia@noaa.gov 301.628.1011

Danielle Conklin (Contractor)

NOAA SBIR Program Specialist danielle.conklin@noaa.gov 301.628.1012

techpartnerships.noaa.gov



@NOAASBIR



